PUTTING DATA TO USE

The track geometry data is recorded on hard disk, displayed on an oscillograph for immediate viewing, processed in real-time to produce the Track Geometry Exception Report, and recorded to CD-ROM for later use.

This report documents the magnitude of any exceptions from the established Federal Track Safety Standards (FTSS) for profile, crosslevel (superelevation), warp, curvature, gage, and alignment. The detailed exception listings in this report provide FTSS information keyed to geographic location (i.e. distance from a milepost, or GPS latitude and longitude location). The report is used as a tool by the Federal Track Safety Inspector to monitor compliance with Federal Track Safety Standards.

Railroad maintenance planners also use the Track Geometry Exception Report to pinpoint sections of track that will require maintenance, both short-range (days) and long-range (months). The report can also be used to identify the types of maintenance actions required at specific locations, to prepare work-crew schedules, to estimate future track maintenance work loads and to insure compliance with Federal Track Safety Standards.

Utilizing the data stored on the hard disk and CD-ROM, additional analysis can be performed. This analysis provides more detailed information such as track geometry space curves, track quality indices, and other track geometry descriptors. This data is used to support FRA's effort to develop performance-based track geometry standards.

TRACK GEOMETRY EXCEPTION REPORT

Sections

- Excerpts from 49 CFR Part 213
- Exception List Section (Detailed Exception Report)
- Curve Analysis Section (Detailed Curve Analysis)
- Exception Summary Section (Mile by Mile Summary)